

# PATENT ABSTRACTS OF JAPAN

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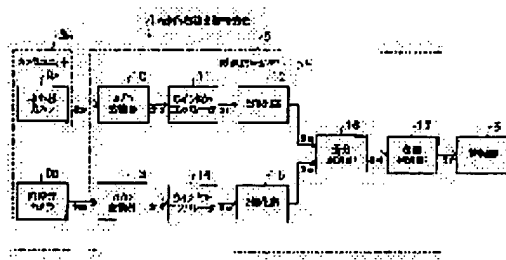
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## (54) PEDESTRIAN SENSING AND ALARMING SYSTEM

### (57)Abstract:

**PROBLEM TO BE SOLVED:** To provide a system which contributes to improvement of reliability and of safety in walking of pedestrians by sensing a pedestrian in front of a vehicle for issuing warnings.

**SOLUTION:** A visible light camera 9B using a visible light is used to photograph a scene at least in front of a vehicle and an infrared-ray camera 9A using infrared rays emitted from a front object is used to photograph the scene. Then the visible light video signal is compared with a prescribed reference value, and a binary processing section 15 applies binary processing to the result, an infrared-ray video signal is compared with a prescribed reference signal, a binary processing section 12 applies binary processing to the result, and a differential arithmetic section 16 calculates a difference of the binary signals. When a correlation discriminating section 17 compares an output pattern of the differential calculation result with a preset pedestrian pattern and the correlation exceeds a prescribed satisfactory value, the section 17 discriminates it as a pedestrian. When a pedestrian is discriminated, a warning section 6 issues a warning.



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